

Z-PASS2-S

STRATON REMOTE CONTROLLER WITH BUILT-IN I/O, *3G+/4G*, MODEM, ETHERNET ROUTER, GPS

Highlights

- **Controller based on SoftPLC StratON IEC 61131**
- **Nr.2 Fast Ethernet ports 10/100 Tx on RJ45 front connector**
- **Nr.1 RS232/RS45 switchable port**
- **Nr.2 RS485 ports**
- **Nr.1 USB host port**
- **Nr.1 worldwide pentaband 3G+ or 4G LTE modem with built-in GPS**
- **Nr.6 built-in digital channels**
- **Supported protocols: ModBUS TCP Server, ModBUS RTU Master/Slave, FTP/SFTP Server, HTTP/HTTPS Server, OpenVPN, SLL**
- **Optional Energy management protocols (IEC 60870-101, IEC 60870-104, IEC 61850)**

Z-PASS2-S is a high performance multifunction controller including PLC, routing and remote access functions. The device is based on Straton softPLC with web server, VPN and 3G + or 4G LTE modem/route.
Equipped with nr.2 Fast Ethernet ports (managed in Switch mode and LAN / WAN), Nr. 1 RS232/RS485 port, Nr.2 RS485 ports and nr.1 USB host 2.0 port, Z-PASS2-S supports ModBUS TCP Server, ModBUS RTU Master/Slave, FTP/SFTP Server, HTTP/HTTPS Server, OpenVPN, SLL and – optionally - Energy Management protocols (IEC 60870-101, IEC 60870-104, IEC 61850).
The controller has nr.1 digital input for remote secure security, nr.1 digital output VPN signalling connection and nr.4 digital configurable channels.
The device is progammable via Z-NET4 (SENECA system configuration environment) and web server. It includes a ARM9 processor, 1 GB Flash, 64 MB RAM and a Micro SD slot up to 32 GB.
Integrated into LET'S platform for remote assistance and telecontrol, ZPASS2- S can support Point-To-Point or Single LAN connections.

3G+/4G | BUILT-IN I/O | Industry 4.0 ready | LET'S VPN CONNECTIVITY SOLUTIONS | straton | Znet4

100% Made & Designed in Italy

SENECA
www.seneca.it

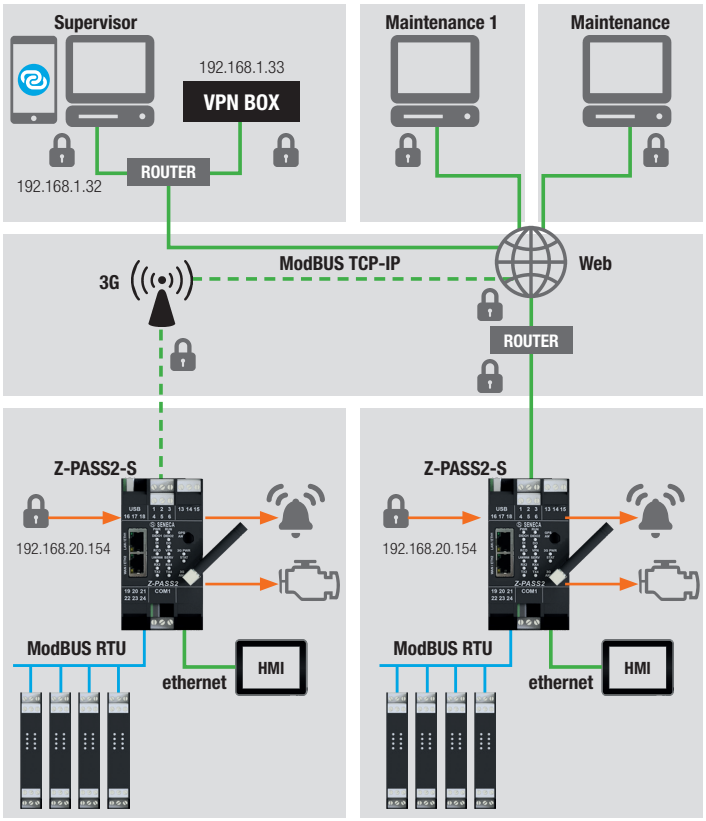
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Z-PASS2-S



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APPLICATION NOTE



TECHNICAL DATA

GENERAL DATA	
Power Supply	19..40 Vdc; 19..28 Vac
Power Consumption	Typical 4 W @ 24Vac, Max 6 W
Isolation	1500 Vac
LED Status Indicators	I/O status / Remote Connection (RCD) / VPN connection (VPN) LAN/WAN (Ethernet mode) / SERV (VPN BOX Service) Rx-Tx serial communication / Ethernet link / traffic
Protection Degree	IP20
Operating Tempetature	-20 °C..+65 °C
Dimension (wxhxd)	100 x 52,5 x 112 mm
Weight	280 g
Case	PA6 glass fiber reinforced , black color
Mounting	35 mm DIN rail IEC EN 60715
COMMUNICATION	
Ethernet ports (ETH1, ETH2)	Nr.2 Fast Ethernet 10/100Tx ports on RJ45 front connector
Serial ports (COM1, COM2, COM4)	Nr.1 switchable RS232 / RS485 serial port, max baud rate 115kbps on connector Nr.1 RS485 port, max baud rate max 115kbps on IDC10 connector Nr.1 RS485 port, baud rate max 115kbps on terminals
USB ports	Nr.1 USB host port on side connector type A
Modem / Router 3G+ Worlwide*	GSM /GPRS/EDGE Quad-band: GSM 850 MHz, GSM 900 MHZ DCS 1800 MHz, PCS 1900 MHz 850-900-1800-1900 MHZ UMTS/HSPA+ Penta-BAND : WCDMA 2100/900, 2100/850, 1900/850 MHZ GNSS: 30 Channels: GPS 16 channels and GLONASS 14 channels
Modem / Router 4G – LTE*	4G/LTE Model (Europe, Africa, Middle East, Korea, Thailand, India) GSM/GPRS/EDGE Dual-band: 1800/900 MHz UMTS/HSPA+ Tri-Band: WCDMA 2100/850/900 MHz 4G LTE BAND 6-Band: 2100/1800/ 850/ 2600/ 900/ 800 MHz GNSS: GPS/GLONASS/BeiDou/Galileo/QZSS up to 55 channels
Industrial protocols	ModBUS TCP server, ModBUS RTU master, ModBUS RTU slave.
IT protocols	FTP server, SFTP server, HTTP server, HTTPS server, OpenVPN
Energy protocols (opt.)	IEC 60870-101/104, IEC 61850
Nr. Max client VPN	Point-To-Point: 1; Single LAN: 496
Nr. Max simultaneous TCP client connections	32
Operating Functions	ModBUS Gateway, 3G+/Ethernet Router, VPN, Telecontrol single LAN, Remote Assistance Point-To-Point, LAN / WAN, Switch Ethernet, Layer 2 - Industrial Ethernet (Point-To-Point connection mode)
CPU & MEMORY	
Processor	ARM 32 bit
Flash Memory (data)	1 GB
RAM	64 MB
FeRAM	4 kB
Slot Micro SD	Yes, up to 32 GB
I/O	
Assigned Signals	1DI / 1DO (VPN Connections)
Free Use	1 DI / 1 DO
Programmable mixed	2 DI/DO
SECURITY	
Remote Access block	Mechanical, Inteblock digital input for remote connection
Decoupling LAN/WAN	Sì
Data Encryption	128bit
Data Authentication	SHA1 160bit
Security protocol	OpenVPN, SSL, HTTPS Server
SETTINGS & SOFTWARE	
Tools & Packages	Web Server, VPN Box Manager, VPN Client Communicator, Seneca Discovery Device, Z-NET4 system configurator, Straton IEC 61131 programming system, Log Factory, Web Factory
STANDARD	
Approvals	CE
Norms	ETSI EN 301489-7, EN 61000-6-4, EN 61000-6-2, EN 301511, EN 301489-1, EN 301489-7, IEC / EN 60950

* alternatively

ORDER CODES

Code	Description
ROUTER / GATEWAY	
Z-PASS2-S-IO	VPN Straton Remote Controller, 2DI, 2DO, 2DI/DO, worldwide modem, 3G+/ Ethernet Router
Z-PASS2-S-IO-E	VPN Straton Remote Controller, 2DI, 2DO, 2DI/DO, worldwide modem, 3G+/ Ethernet Router, GPS, energy protocols
Z-PASS2-SIO4GEU	VPN Straton Controller, 2DI, 2DO, 2DI/DO, modem 4G/Ethernet Router, GPS
Z-PASS2-SIOE4GEU	VPN Straton Controller, 2DI, 2DO, 2DI/DO, 4G Modem/Ethernet Router, GPS, energy protocols
VPN PLATFORM	
VPN BOX	LET'S - VPN Server for Point-to-Point / Single LAN connections
VPN BOX VM	LET'S - VPN Server Virtual Machine for Point-to-Point / Single LAN connections
VPN BOX-D	LET'S - VPN BOX Point-to-Point service, 30 day free trial up to 2 devices
VPN BOX VM-D	LET'S - VPN Server Virtual Machine for Point-to-Point / Single LAN connections up to 2 devices
VPN CC	LET'S - VPN Client Communicator, remote access software
VPN CC APP	VPN CC mobile App version
TOOL SOFTWARE	
Log Factory	Visualization and log data tool for Z-GPRS3, Z-LOGGER3, Z-UMTS
SDD	SENECA Discovery Device, IP scanner for Z-KEY, Z-PASS1, Z-PASS2
SESC	SENECA Ethernet to Serial Connection tool for Z-KEY, Z-PASS1, Z-PASS2
Straton	IEC 61131 IDE and licenses (www.seneca.it or support@seneca.it for more details)
TEMP-TAG-Z-PASS	Excel template for Z-PASS-1/2/2S tags (gateway mode)
Web Factory	HMI / Web Edtor embedded in Z-NET4
Z-NET4	Z-PC system configurator, Web Editor included
ACCESSORIES	
A-GPS-SMA	GPS antenna with SMA connector
A-GSM	Dual band swing GSM external antenna, cable 3,2 m, SMA
A-GSM-QUAD-N	4G/WiFi omnidirectional antenna, FME, L=3mt
CS-TIP-MEF-PH	Serial communication cable (tips/4-ways connector)
CSDB9M-MEF-PH	Serial communication cable (DB9M / MEF 10-12) 3 wires, 1,5 mt
CE-RJ45-RJ45-R	Straight-thru Ethernet cable (RJ45-RJ45)
MSD	Micro SD memory card with adapter
Z-PC-DINAL2-52.5	DIN rail bus system head terminal + 2 slots 52.5 mm

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